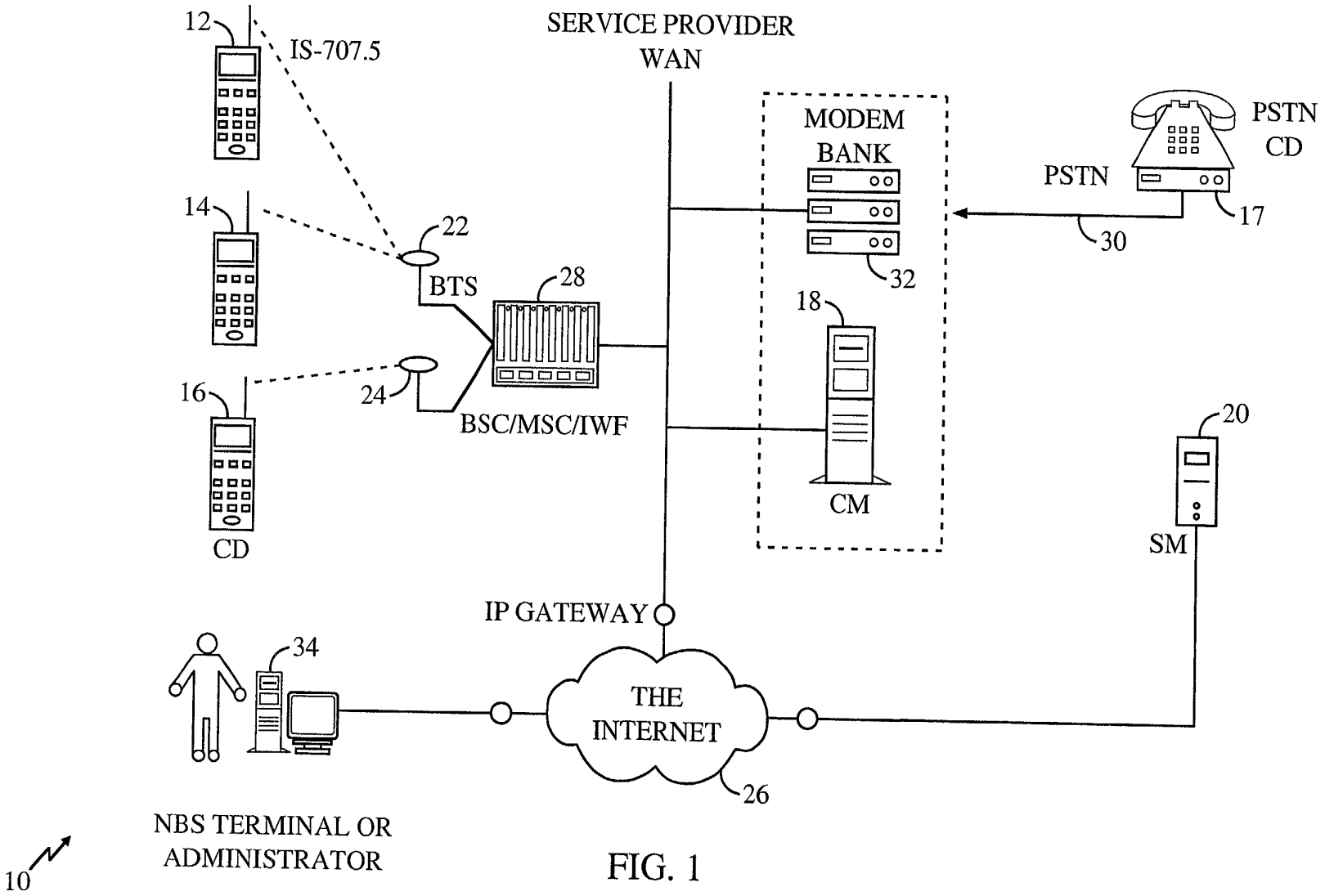
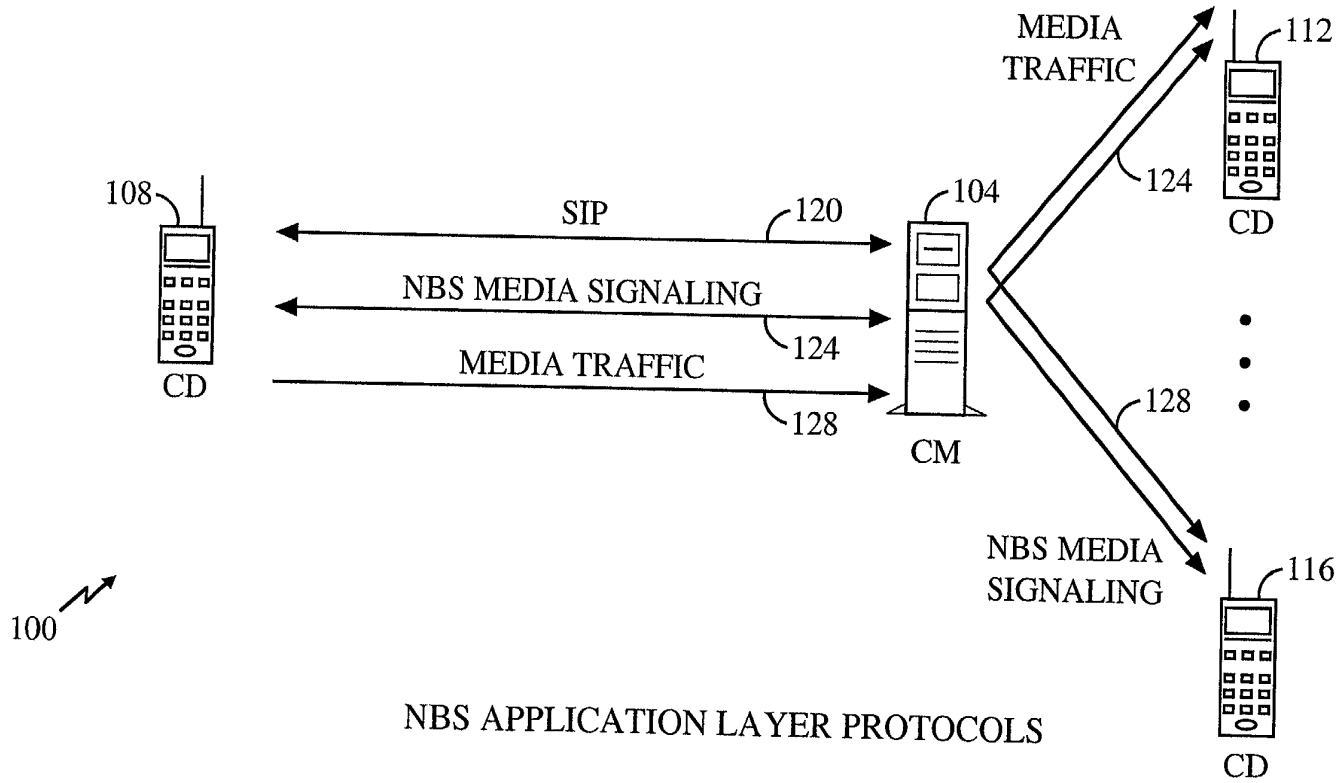

12
IS-707.5
SERVICE PROVIDER
WAN
MODEM
BANK
PSTN
CD
PSTN
14
22
BTS
28
30
32
17
18
16
24
BSC/MSC/IWF
CM
20
SM
CD
IP GATEWAY
34
THE
INTERNET
26
NBS TERMINAL OR
ADMINISTRATOR
10

FIG. 1



NBS APPLICATION LAYER PROTOCOLS

FIG. 2

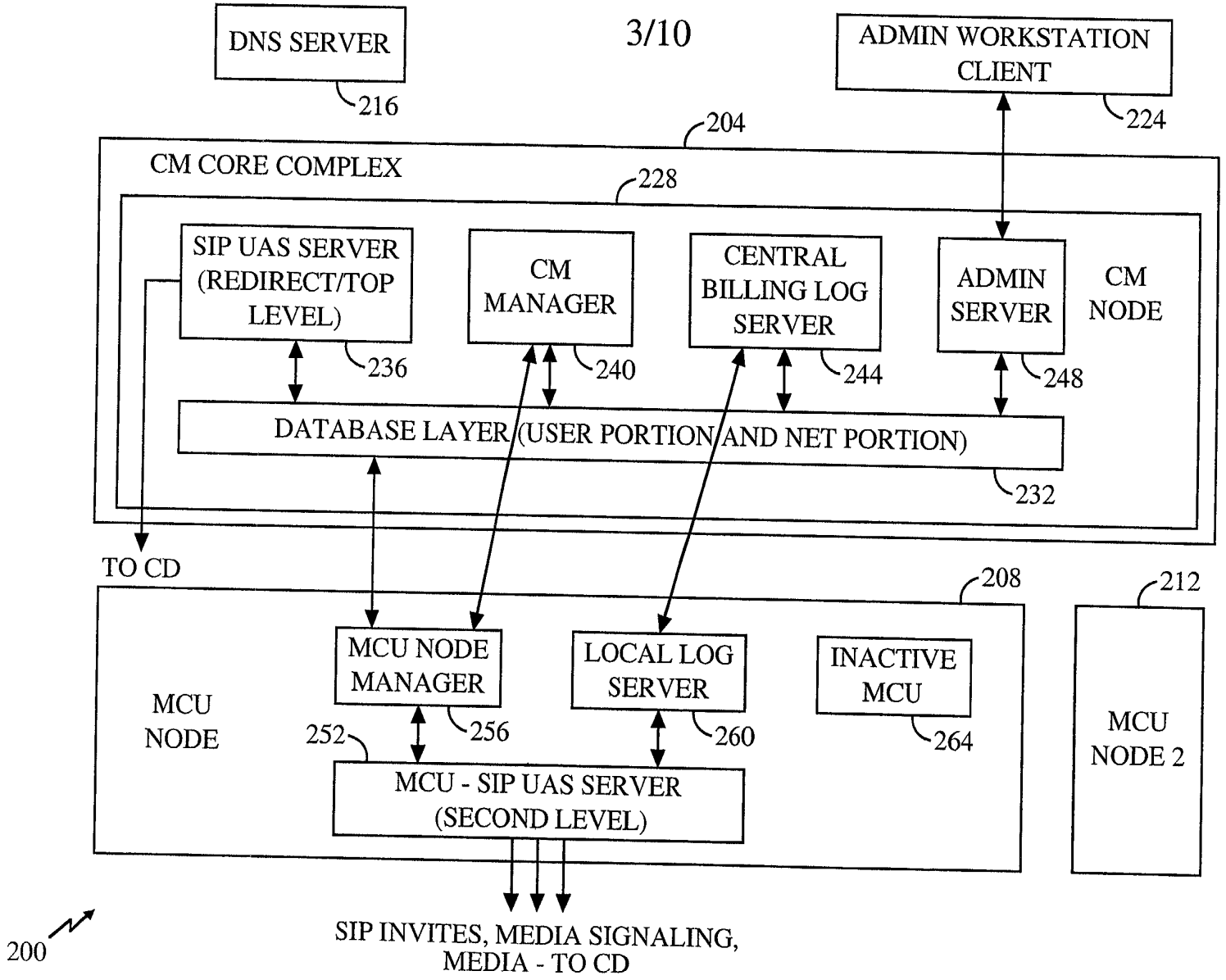
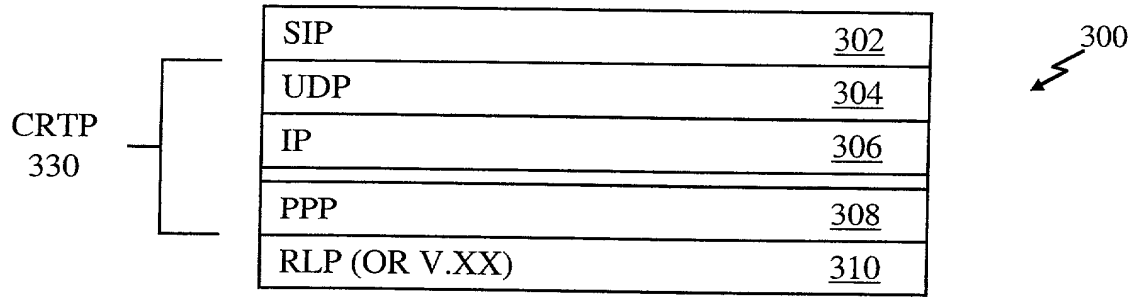
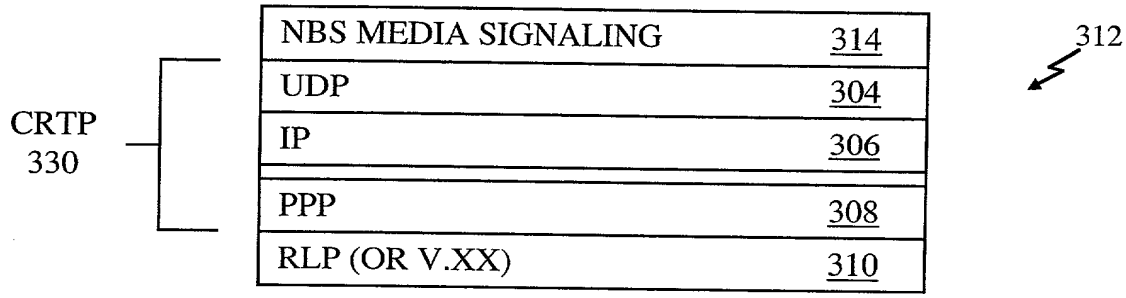

DNS SERVER
216
ADMIN WORKSTATION CLIENT
224
204
CM CORE COMPLEX
228
SIP UAS SERVER (REDIRECT/TOP LEVEL)
236
CM MANAGER
240
CENTRAL BILLING LOG SERVER
244
ADMIN SERVER
248
CM NODE
DATABASE LAYER (USER PORTION AND NET PORTION)
232
TO CD
208
212
MCU NODE
MCU NODE MANAGER
256
252
LOCAL LOG SERVER
260
INACTIVE MCU
264
MCU NODE 2
MCU - SIP UAS SERVER (SECOND LEVEL)
SIP INVITES, MEDIA SIGNALING, MEDIA - TO CD
200

FIG. 3



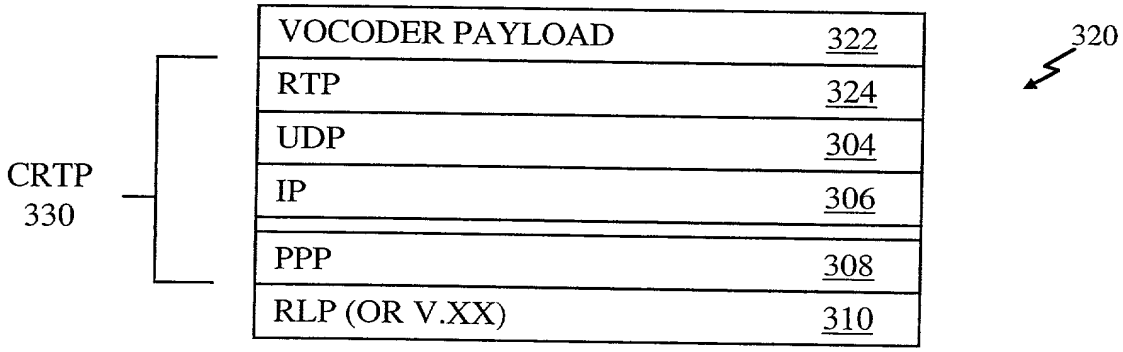
NBS SIP SIGNALING PROTOCOL STACK

FIG. 4



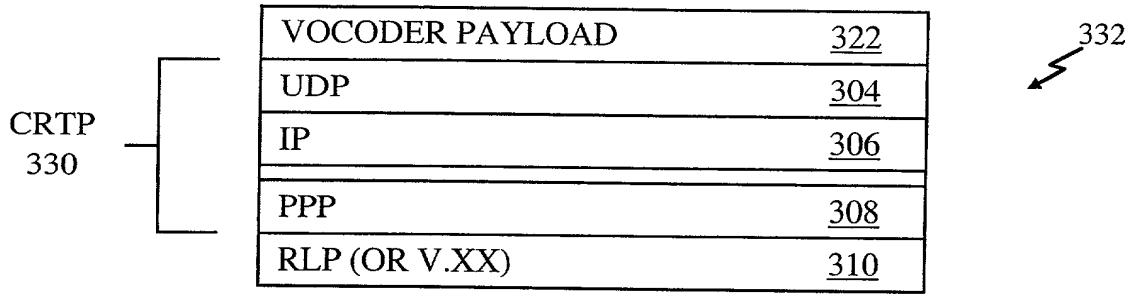
MEDIA SIGNALING PROTOCOL STACK

FIG. 5



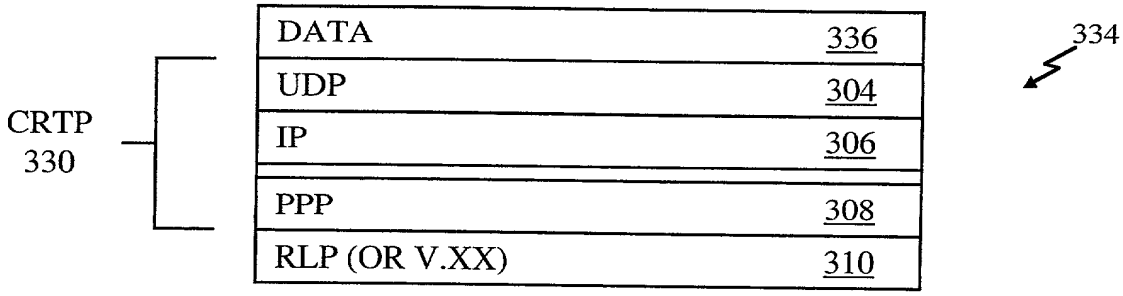
RTP VOICE MEDIA PROTOCOL STACK

FIG. 6



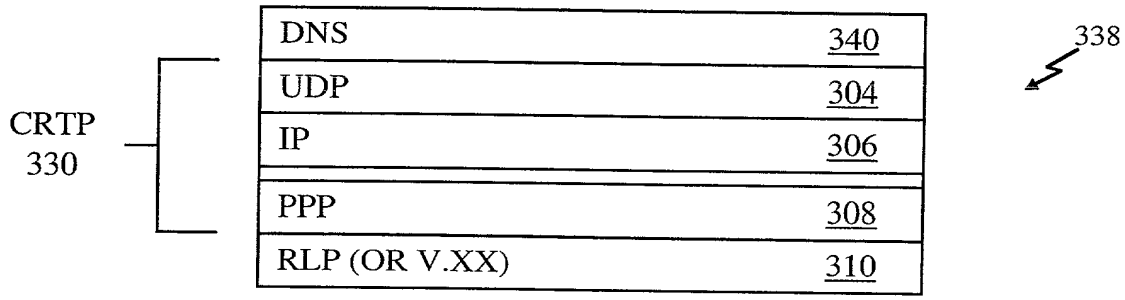
UDP VOICE MEDIA PROTOCOL STACK

FIG. 7



MEDIA TRAFFIC (DATA) PROTOCOL STACK

FIG. 8



DNS CLIENT PROTOCOL STACK

FIG. 9

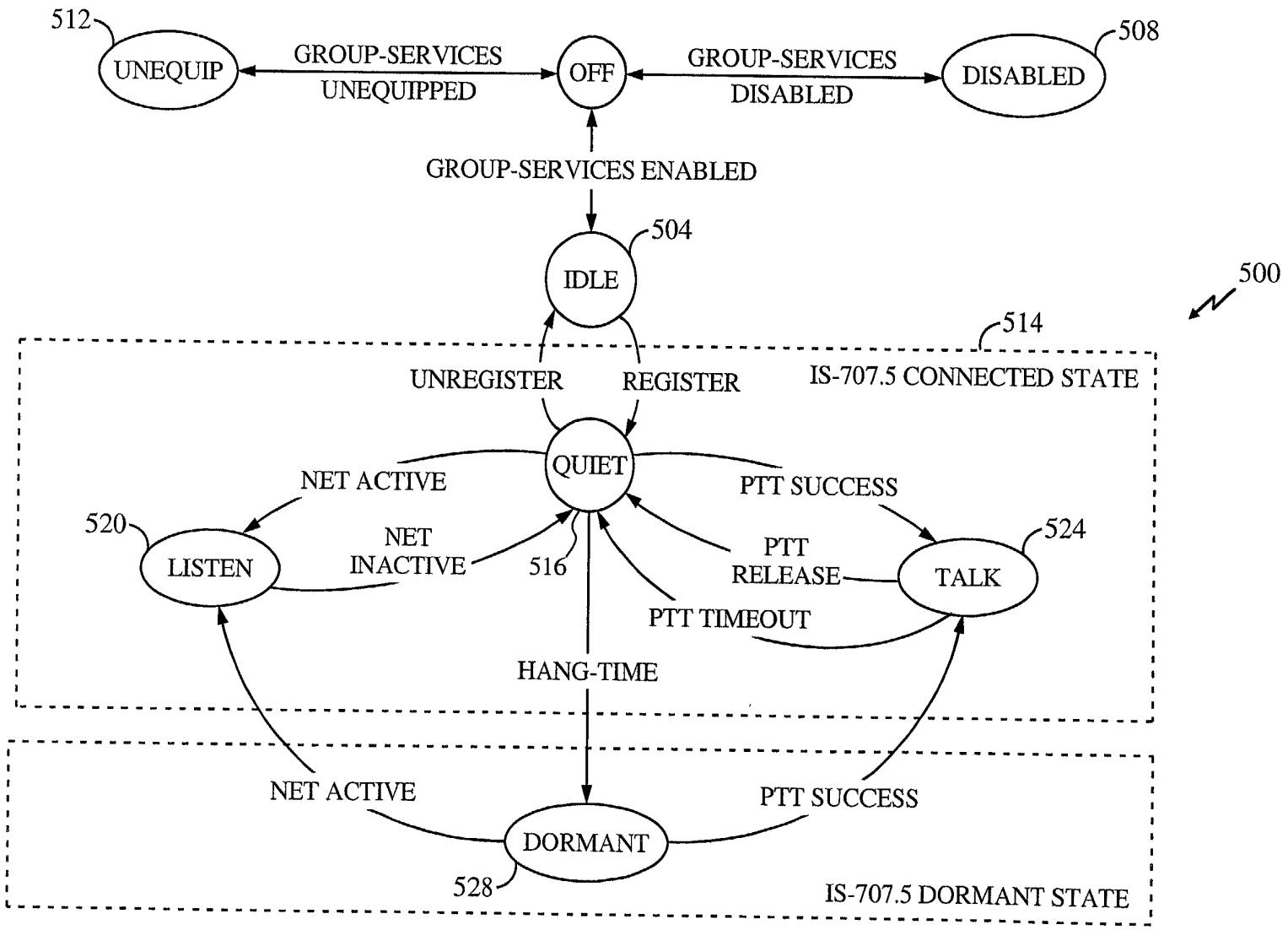

512
UNEQUIP
GROUP-SERVICES
UNEQUIPPED
OFF
GROUP-SERVICES
DISABLED
508
DISABLED
GROUP-SERVICES ENABLED
504
IDLE
500
514
IS-707.5 CONNECTED STATE
UNREGISTER
REGISTER
QUIET
NET ACTIVE
PTT SUCCESS
520
LISTEN
NET
INACTIVE
516
PTT
RELEASE
524
TALK
PTT TIMEOUT
HANG-TIME
NET ACTIVE
PTT SUCCESS
DORMANT
528
IS-707.5 DORMANT STATE

FIG. 10

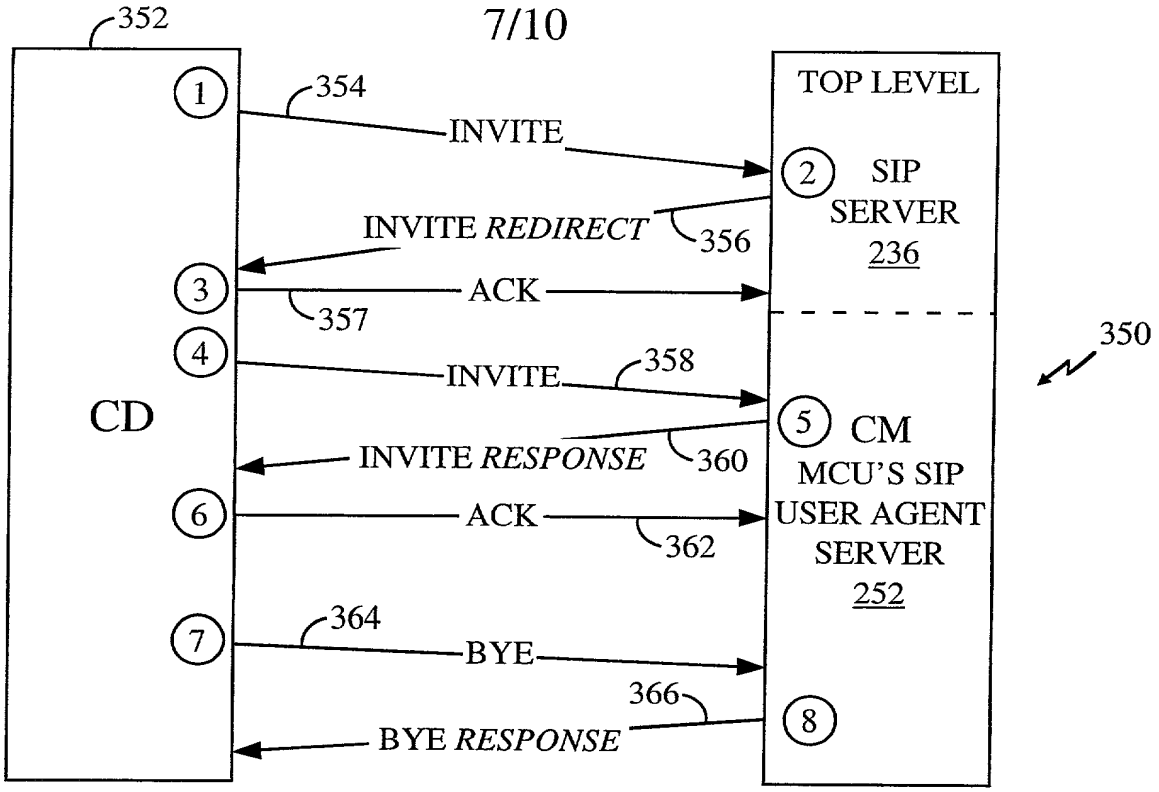


FIG. 11

SIP CALL SIGNALING

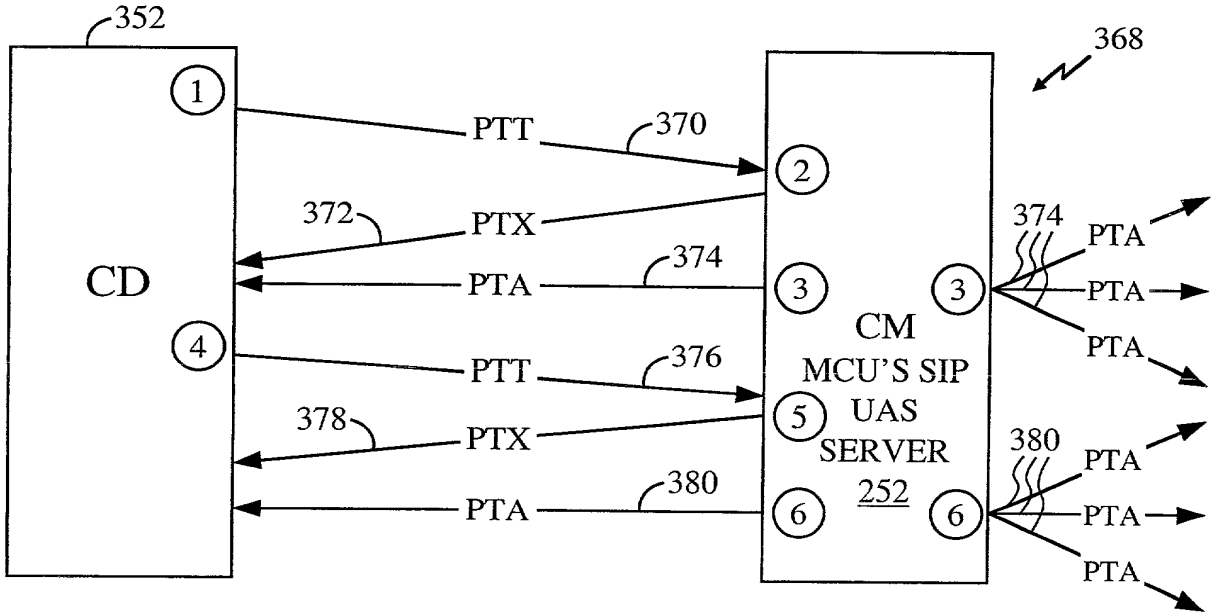
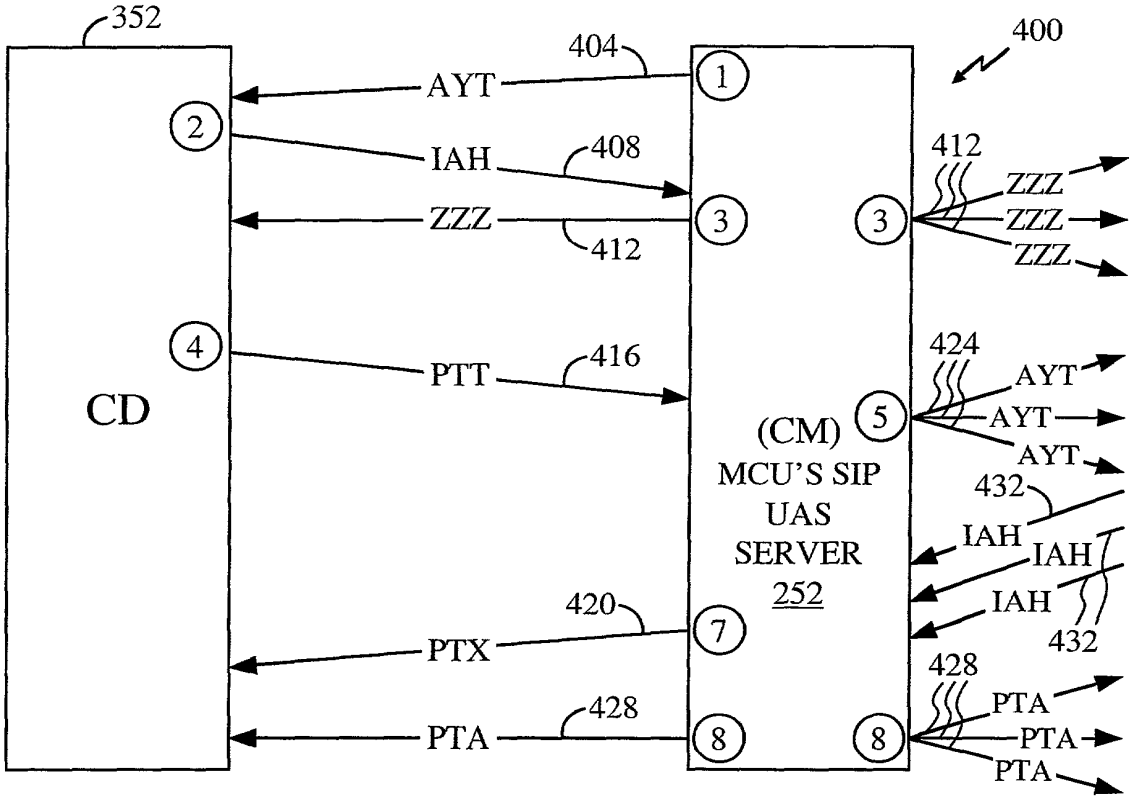


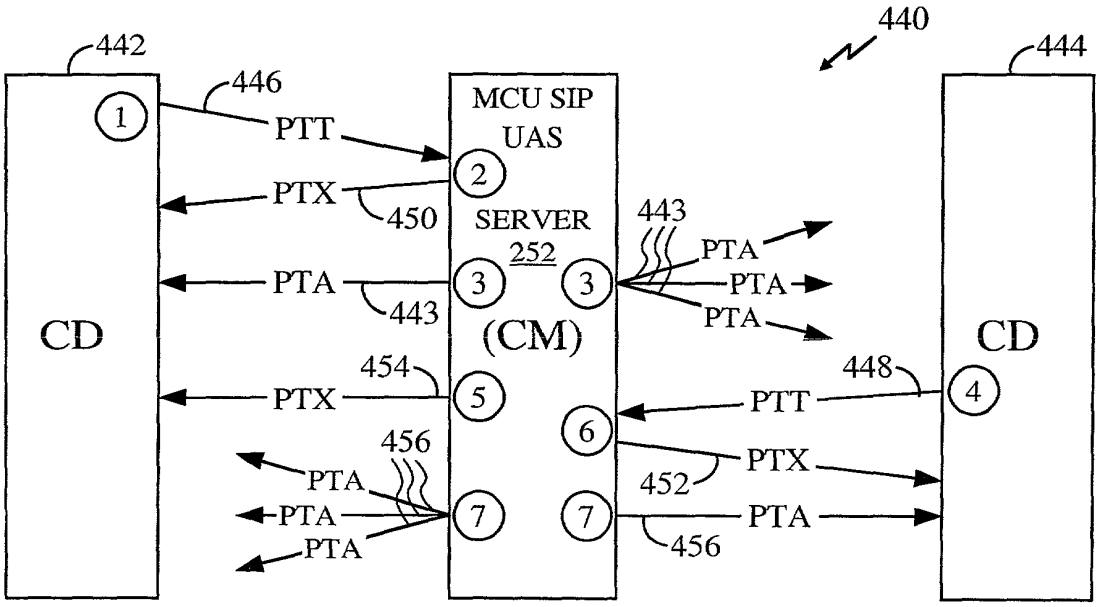
FIG. 12

MEDIA SIGNALING MESSAGE SEQUENCE (PTT



MEDIA SIGNALING MESSAGE SEQUENCE (DORMANCY)

FIG. 13



MEDIA SIGNALING MESSAGE SEQUENCE (PRIORITY ARBITRATION)

FIG. 14

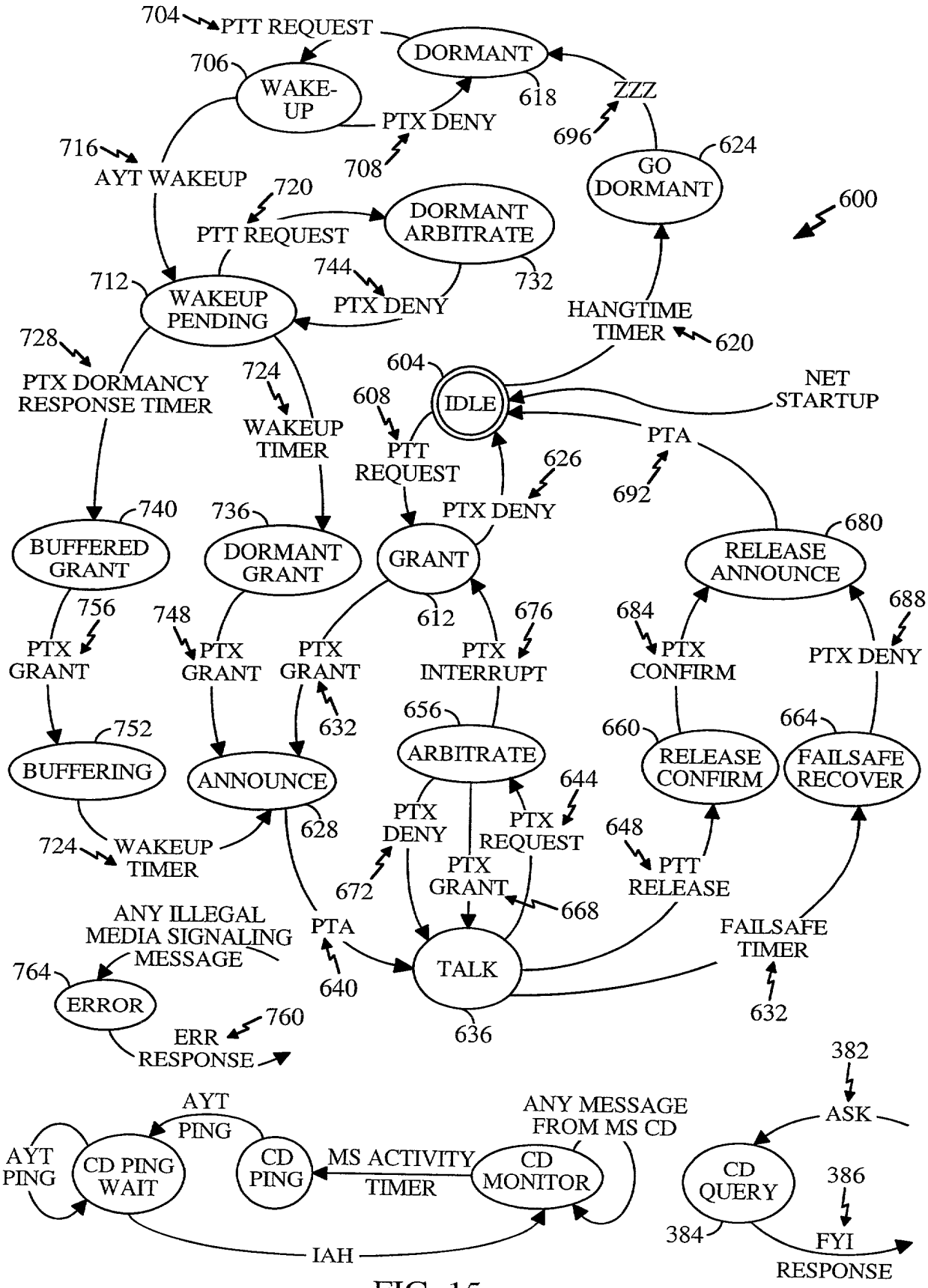


FIG. 15
MEDIA SIGNALING STATE DIAGRAM

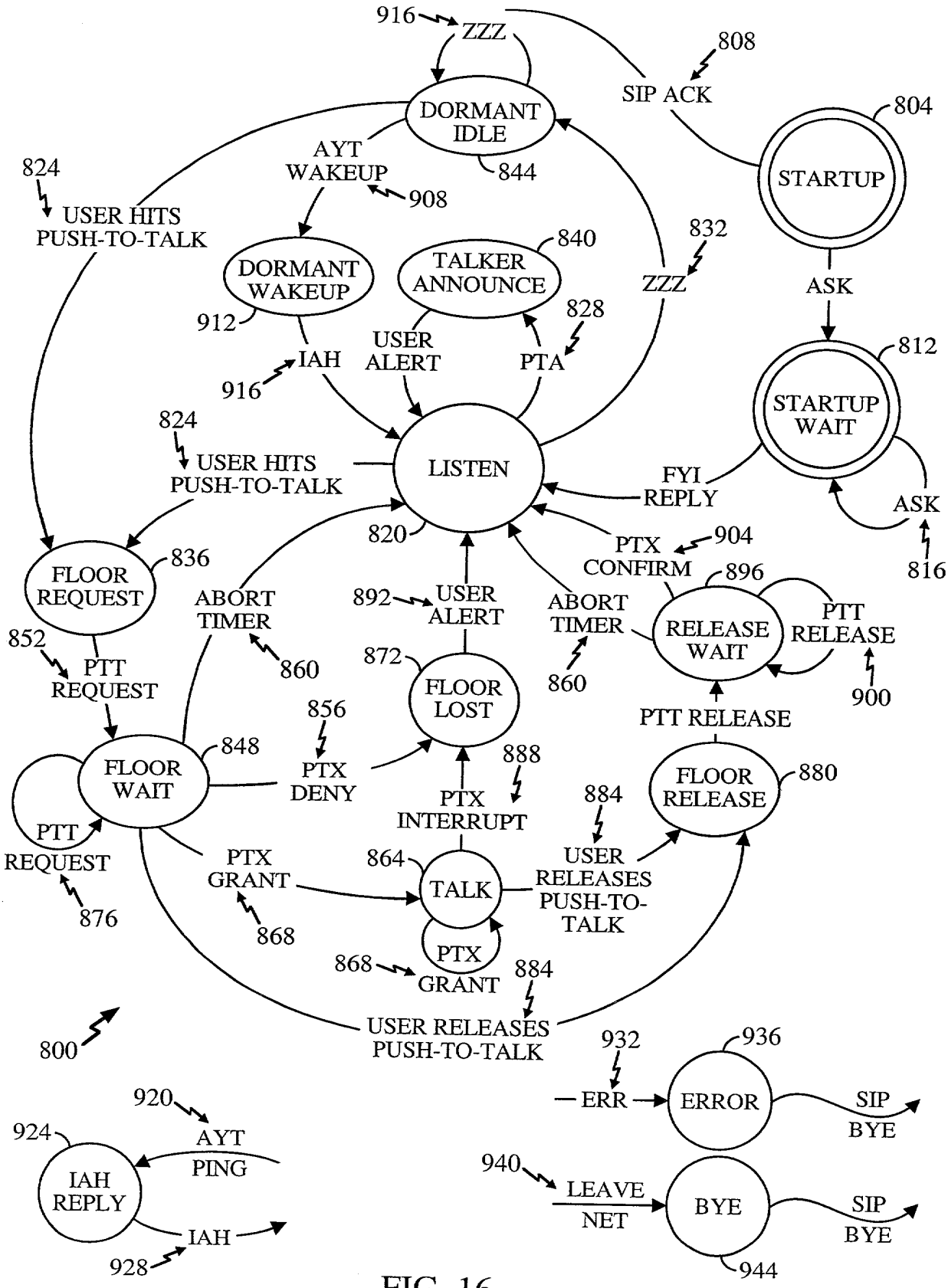


FIG. 16
CD STATE DIAGRAM